

SANYO STEREO CASSETTE DECK RD 4545 SERVICE MANUAL



Tape Speed:

1-7/8 IPS. ±1.0%

Fast Forward Time: Rewind Time:

90 ~ 110 sec. (c-60 cassette)

Wow & Fulutter: Terminal Impedance: 90 ~ 110 sec. (c-60 cassette)

MIC. 10K ohm

DIN INPUT 2.2K ohm
LINE OUT 5.6K ohm
DIN OUT 80 ohm

0.07% RMS. (LIMIT)

Hum & Noise:

Closs Talk:

Frequency Responce:
Power-Consumption:

Signal to Noise Ratio:

Less than 3 mV $30 \sim 14$ KHz R/P (CrO₂)

(CCIR) or DIN

Better than 60 dB (track to track)

Better than 50 dB DOLBY NR IN. WTD

Better than 30 dB (chl. to chl.)

22 W

ADJUSTMENT

PRIOR TO MECHANICAL ADJUSTMENT

The surfaces of the tape-contacting and revolving parts (pulleys and belts) should be kept clean. Wipe off grease and oil stains, using alcohol.

ADJUSTING HEAD POSITIONS

Set the unit in the PLAY mode after putting into it the special jig for adjusting the head positions, or a jig similar to the one shown in the illustration.

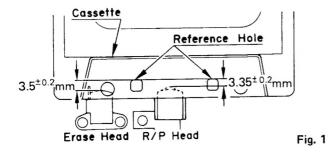
 The distances from the reference holes to the heads should be as shown in the illustration:

To R/P head

3.35 ±0.2mm

To erase head

 $3.5 \pm 0.2 mm$



 Loosen the screws fastening the bracket stopper. Then, move it until the R/P head comes to its proper position.

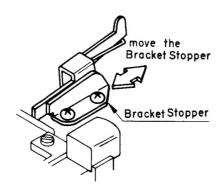


Fig. 2

- Loosen the screws fastening the erase head and adjust its position.
- After each adjustment, tighten the erase head screws and secure them by applying screw lock.

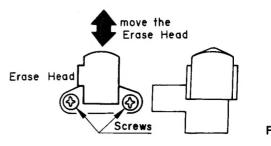
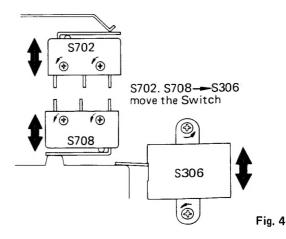


Fig. 3

ADJUSTING SWITCH (\$702, \$708, \$306) POSITIONS

- Push the PLAY button gradually and make sure that S702 and S708 are switched before S306.
- Each switch can be adjusted after loosening its screws.
- After adjusting each switch, tighten its screws and secure them by applying screw lock.



ADJUSTING SWITCH (\$111) POSITION

- Push the RECORD button slowly and make sure that the RECORD/PLAY switch works before \$111.
- Loosen the screws fastening the bracket switch and adjust its position as shown.
 - After adjustment, there should be a clearance of more than 0.5mm between the switch (S111) actuator and the switch unit.

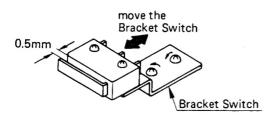


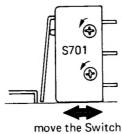
Fig. 5

 After each adjustment, tighten the bracket switch screws and apply screw lock to secure them.

ADJUSTING SWITCH (S701, S705) POSITIONS

- S701 and S705 should be actuated on pushing the PAUSE and REWIND buttons respectively.
- Loosen the screws fastening each switch and adjust its position.





Rewind Position

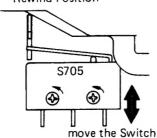


Fig. 6

 After adjustment, tighten the screws fastening the switches and apply screw lock.

TAKE UP TORQUE

- Measure the take-up torque during playback with a torque gauge. The proper value is 35 to 65 gr-cm.
- If the specified take-up torque is not obtained, replace the take-up reel assembly.

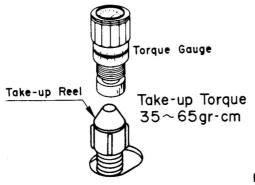


Fig. 7

ADJUSTING FULL AUTO STOP SYSTEM

 With the unit in the recording mode, the FULL AUTO STOP system should shut off power on supplying DC 18V from the constant voltage regulator to the plunger through the circuit shown in the illustration.

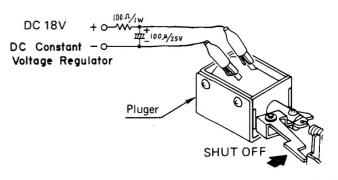


Fig. 8

 Make necessary adjustment by bending the plate of the SELECT button assembly.

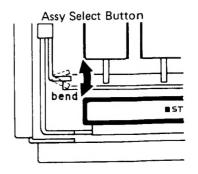


Fig. §

ADJUSTING REED SWITCH POSITION

 Adjust the magnet so that it becomes identical in heigh with the printed circuit board.

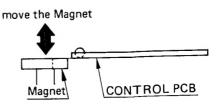


Fig. 1

 Loosen the screws fastening the printed circuit board and adjust its position until there is a clearance of 1.5 to 2.0mn between the reed switch and the magnet.

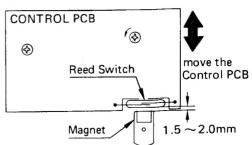


Fig. 1

• After the above adjustment, fasten the PCB screws securely.

ELECTRICAL ADJUSTMENT

SWITCH SETTINGS FOR MAKING ADJUSTMENT

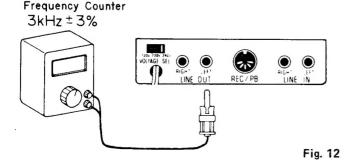
- Unless otherwise specified in the respective sections, set the switches to the following positions:
- DOLBY CALIBRATION SWITCH OFF
 For electrical adjustment, use an audio signal generator with an output impedance of 600 ohms.

ADJUSTING TAPE END APPROACHING ALARM TIME

- Turn the adjusting volume P401 counterclockwise until its resistance value becomes maximum.
- Play back C-60 cassette tape with a sufficient length of tape remaining to be played for more than five minutes and measure time from the sounding of the tape end alarm till the end of the tape.
- Adjust the volume P4018 in such a way that it will take two minutes from the sounding of the alarm till the end of the tape.

ADJUSTING TAPE SPEED

 As shown, connect a frequency counter to either the left or the right LINE OUT.



 Play back 3 kHz test tape. Adjust the volume P501 until the frequency counter reading stands at 3 kHz ±3%.

ADJUSTING AZIMUTH OF R/P HEAD

 Connect a VTVM to LEFT LINE OUT and play 10 kHz test tape for azimuth adjustment.

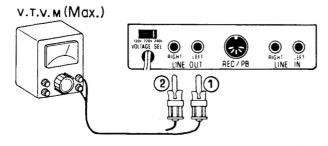


Fig. 13

- Turn the azimuth adjusting screw to the position where the VTVM needle swings to maximum. (No. 1 position)
- Disconnect the VTVM from LEFT LINE OUT and reconnect it to RIGHT LINE OUT. Turn the azimuth screw until the VTVM needle swings to maximum. (No. 2 position)

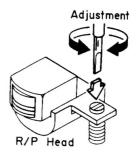


Fig. 14

 Turn the azimuth screw to the center of the Nos. 1 and 2 positions as illustrated. (No. 3 position)

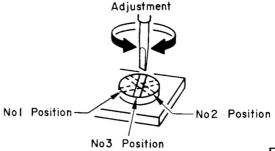
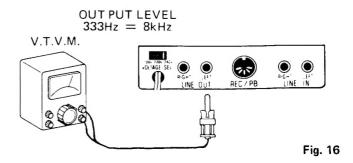


Fig. 15

 After the completion of azimuth adjustment, fix the azimuth screw securely by applying screw lock.

ADJUSTING PLAYBACK FREQUENCY RESPONCE

 As shown in the illustration, connect a VTVM to LEFT LINE OUT and play back a test tape (TEAC MTT-117SP) for checking frequency responce.

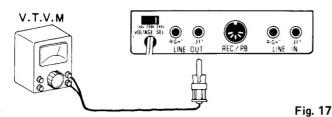


- Adjust the volume P101 while watching the VTVM needle.
 The output difference between 333 Hz and 8 kHz signals recorded on the test tape should be less than ±1dB.
- Adjust the volume P201 for the right channel in a similar manner.

ADJUSTING PLAYBACK GAIN

 Connect a VTVM to LEFT LINE OUT as shown and play back Dolby level adjusting tape (TEAC MTT-150).

OUT PUT LEVEL 400Hz=580mV



- Adjust the output of the 400 Hz signal recorded on the tape to become 580 mV ±0.5dB by turning the volume P102 while reading the VTVM.
- Make similar adjustment for the right channel with the volume P202.

ADJUSTING METER

 Connect an audio signal generator (output impedance = 600 ohms) to LEFT LINE IN and a VTVM to LEFT LINE OUT.

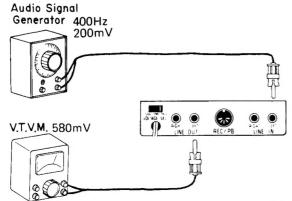
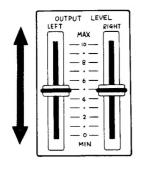


Fig. 18

- Set the audio signal generator output at 400 Hz 200 mV.
 Set the unit in the recording mode.
- Adjust INPUT VOLUME VR1 until the VTVM reading becomes 580 mV. Then, adjust the volume P103 so that the needle of the left channel meter stands at the middle of the Dolby zone mark.



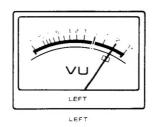


Fig. 19

 Make similar adjustment for the right channel with INPUT VOLUME VR2 and the volume P203.

ADJUSTING RECORDING BIAS

 Turn CALIBRATION VOLs VR5 and VR6 to the center and set the TAPE SELECT switch to CHROME.





Fig. 20

 As shown in the illustration, connect an audio signal generator to LEFT LINE IN and a VTVM to LEFT LINE OUT. After this, mount a chrome tape cassette (BASF TP-18) onto the unit. The output of the audio signal generator should be 400 Hz 200 mV.

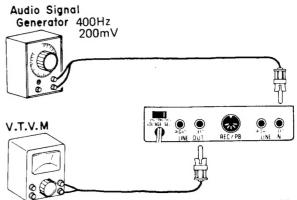
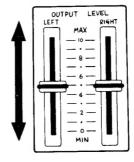


Fig. 21

 Adjust INPUT VOLUME VR1 in such a way that, when recording signals from the audio signal generator, the needle of the left channel meter swings to the center of the Dolby zone mark.



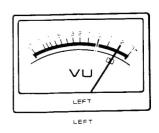


Fig. 22

 Set the MONITOR switch to TAPE. Increase bias current by turning the volume P303. Continue turning the volume until the VTVM reading becomes maximum, from which point it should be reduced by 2dB.



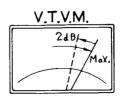
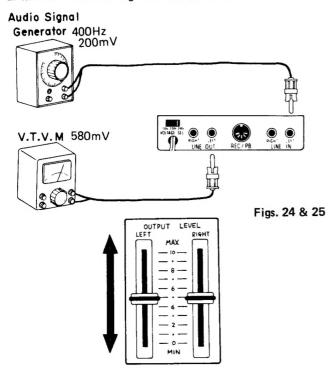


Fig. 23

 Make similar adjustment with the right channel with INPUT VOLUME VR2 and the volume P304.

ADJUSTING MONITOR GAIN

- As illustrated, connect an audio signal generator (output impedance = 600 ohms) to LEFT LINE IN and a VTVM to LEFT LINE OUT. Then, set a standard tape cassette into the unit.
- Set the output of the audio signal generator at 400 Hz 200 mV. Record its signal and adjust INPUT VOLUME VR1 until the VTVM reading becomes 580 mV.



- Reproduce the recorded signal and adjust CALIBRATION VOL. VR5 until the VTVM reading becomes 580 mV ±0.5dB.
- Set the MONITOR switch to TAPE.
- Record the signal from the audio signal generator again.
 Adjust the volume P105 until the needle of the left channel meter stands at the center of the Dolby zone mark.



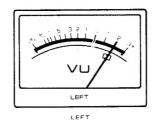


Fig. 26

 Make similar adjustment with the right channel with INPUT VOLUME VR2, CALIBRATION VOL. VR6 and the volume P205.

ADJUSTING DOLBY CALIBRATION OSC (APPROX. 400 Hz) GAIN

- Connect a VTVM to LEFT LINE OUT as shown.
- Set to ON the Dolby calibration switch.
- Set the unit in the recording mode and adjust the volume P306 until the VTVM needle stands at 580 mV ±0.5dB.
- Make similar adjustment with the right channel with the volume P307.

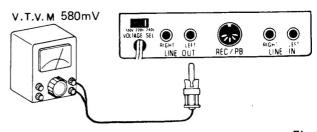
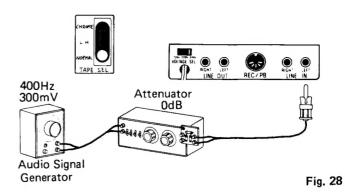


Fig. 27

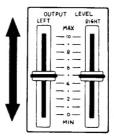
ADJUSTING RECORDING/PLAYBACK FREQUENCY RESPONCE

1. NORMAL TAPE

- Set the TAPE SELECT switch to NORMAL and mount a normal tape cassette onto the unit.
- Connect an audio signal generator and an attenuator to LEFT LINE IN as illustrated.



Set the audio signal generator output at 400 Hz 300 mV.
 With the unit in the recording mode, adjust INPUT VOLUME VR1 until the needle of the meter for the left channel comes to the center of the Dolby zone mark.



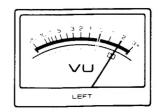


Fig. 29

 Set the MONITOR switch to TAPE and adjust CALIBRA-TION VOL. VR5 until the needle of the meter for the left channel points to the center of the Dolby zone mark.



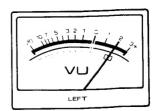


Fig. 30

ADJUSTMENT

- Set the attenuator at 20dB and connect a VTVM to LEFT LINE OUT.
- Record from the audio signal generator 1 kHz and 10 kHz signals alternately. Play back the signals.
- Adjust the volume P106 while watching the VTVM needle. The output difference between 10 kHz and 1 kHz signals recorded should be 0 ±1.5dB when they are played back.

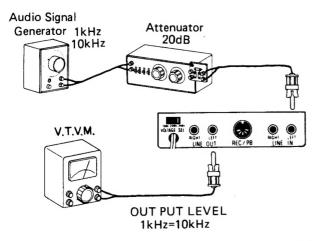


Fig. 31

Make similar adjustment with the right channel with INPUT VOLUME VR2, CALIBRATION VOL. VR6 and the volume P206.

2. L.H. (LOW-NOISE HIGH-OUTPUT) TAPE

- The same procedure of adjustment applies to normal tape and L.H. tape, except for the following:
 - TAPE SELECT switch position L.H.
 - Kind of tape used Low-noise High-output tape (TDK-SD)

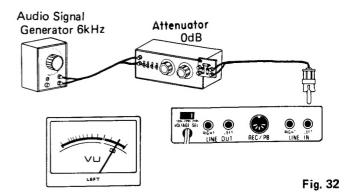
 - Frequency of input signal 1.2 kHz and 12 kHz Volumes to be adjusted P107 (left channel), P207 (right channel)
 - Adjusted level Output difference between 12 kHz and 1.2 kHz signals = 0 ± 1.5 dB.

3. CHROMIUM DIOXIDE TAPE

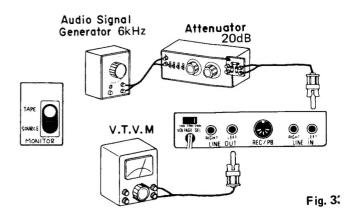
- The same procedure of adjustment applies to normal tape and chromium dioxide tape, except for the following:
 - TAPE SELECT switch position CHROME
 - Kind of tape used Chromium dioxide tape (BAFS
 - Frequency of input signal 1.4 kHz and 14 kHz
 - Volumes to be adjusted P108 (left channel), P208 (right channel)
 - Adjusted level Output difference between 14 kHz and $1.4 \text{ kHz signals} = 0 \pm 1.5 \text{dB}$

ADJUSTING MONITOR HEAD AZIMUTH

- Connect an audio signal generator and an attenuator to LEFT LINE IN as illustrated. Then, mount a normal tape cassette onto the unit.
- Record 6 kHz signal from the audio signal generator and adjust the audio signal generator output until the needle of the meter for the left channel points to the center of the Dolby zone mark.



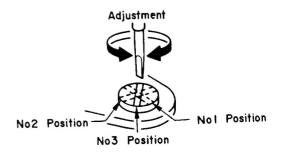
Set the attenuator at 20dB. Set the MONITOR switch $t\epsilon$ TAPE and connect a VTVM to LEFT LINE OUT.



Set the monitor head azimuth adjusting screw to the No. position halfway between the Nos. 1 and 2 positions a instructed in the section on "Adjusting azimuth of R/ head".



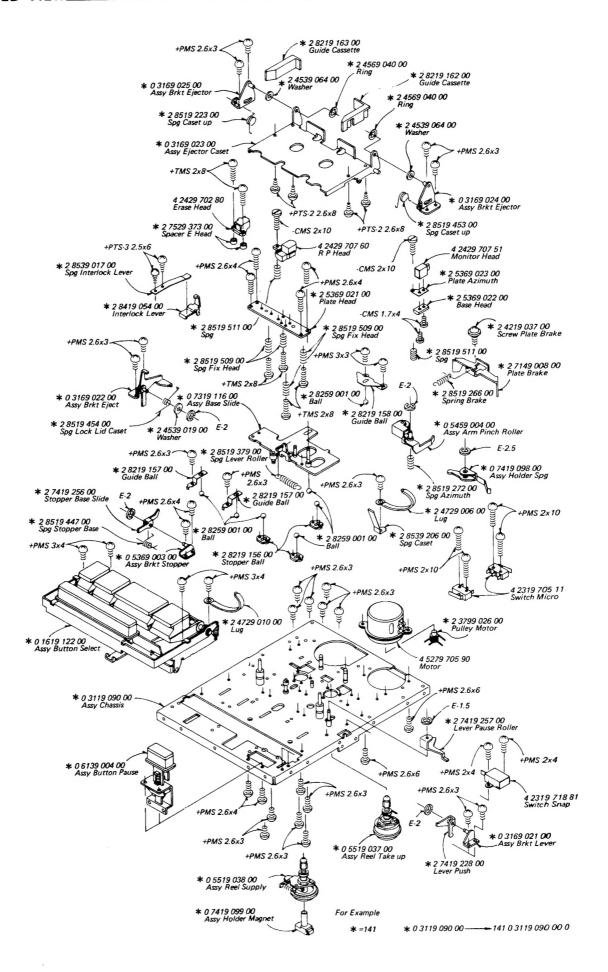
Figs. 34 & 3

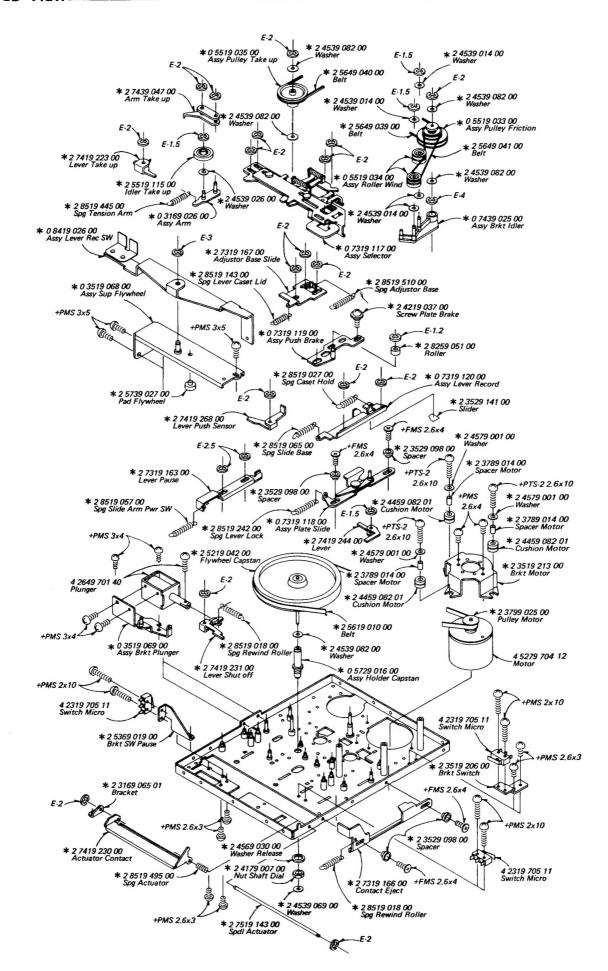


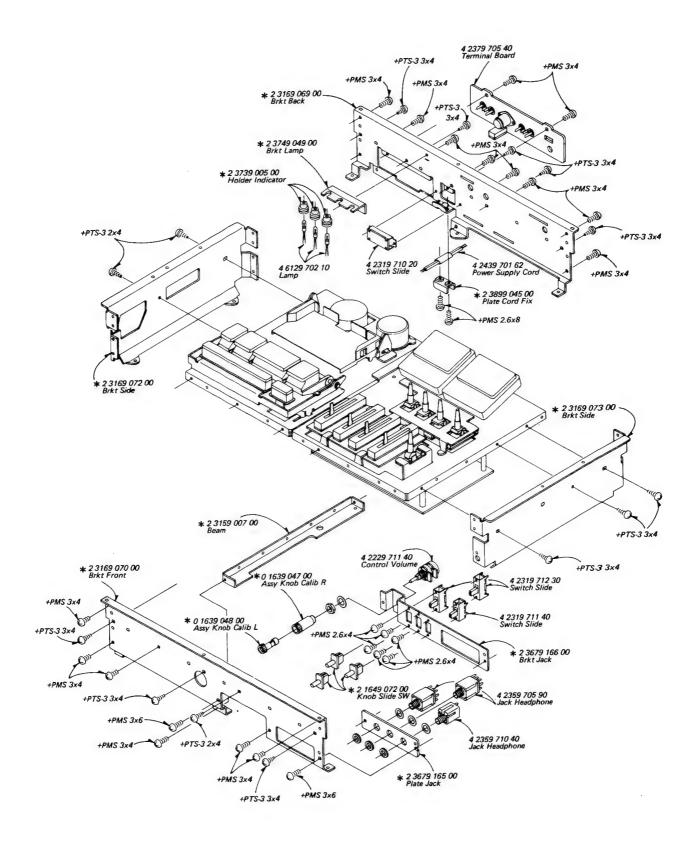
After the completion of adjustment, fix the azimuth scre by applying screw lock.

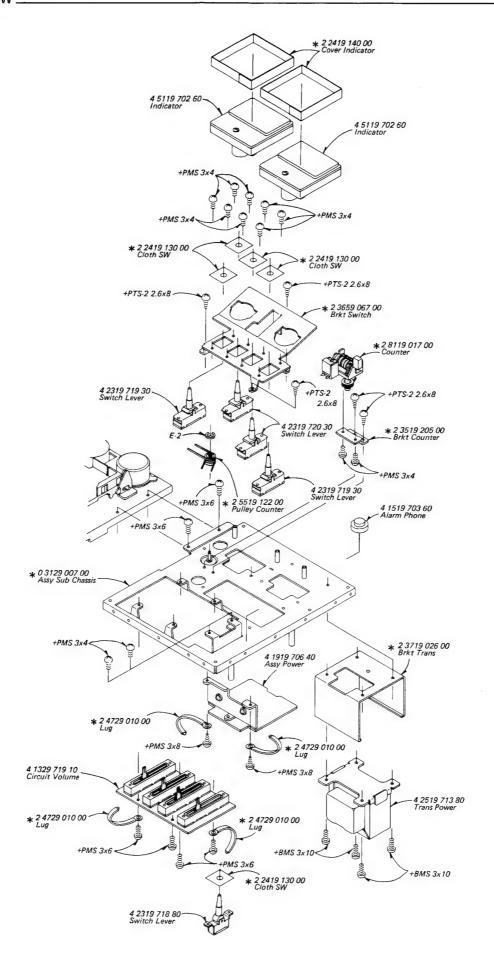
Key No.	Part No.	Description	Q'ty
MEC	CHANISM		
	141 0 3119 09000	Chassis Assy	1
	141 0 3169 02100	Bracket Assy, Lever	1
	141 0 3169 02200	Bracket Assy, Eject	1 1
	141 0 3169 02300 141 0 3169 02400	Ejector Assy, Cassette Bracket Assy, Ejector	1
	141 0 3169 02500	Bracket Assy, Ejector	l i
	141 0 3169 02600	Arm Assy	1
	141 0 3519 06800	Suppord Assy, Flyheel	1
	141 0 3519 06900	Bracket Assy, Plunger	1
	141 0 5369 00300	Bracket Assy, Stopper	1
	141 0 5459 00400 141 0 5519 03300	Arm Assy Pinch Roll Pulley Assy, Friction	1
	141 0 5519 03400	Roller Assy, Wind	2
	141 0 5519 03500	Pulley Assy, Take Up	1
	141 0 5519 03700	Reel Assy, Take Up	1
	141 0 5519 03800	Reel Assy, Supply	1
	141 0 5729 01600	Holder Assy, Capstan	1
	141 0 7319 11600 141 0 7319 11700	Base Assy, Slide Selector Assy	1
	141 0 7319 11700	Plate Assy, Slide	i
	141 0 7319 11900	Push Brake Assy	1
	141 0 7319 12000	Lever Assy, Record	1
	141 0 7419 09800	Holder Assy, Spring	1
	141 0 7419 09900	Holder Assy, Magnet	1 1
	141 0 7439 02500 141 0 8419 02600	Bracket Assy, Idler Lever Assy, Rec Switch	1
	141 2 3169 06501	Bracket	i
	141 2 3519 20600	Bracket, Switch	1
	141 2 3519 21300	Bracket, Motor	1
	141 2 3529 09800	Spacer	2
	141 2 3529 09800	Spacer Slider	2
	141 2 3529 14100 141 2 3789 01400	Spacer, Motor	3
	141 2 3799 02500	Pulley, Motor	1
	141 2 4179 00700	Nut Shaft Dial	1
	141 2 4219 03700	Screw, Plate Brake	1
	141 2 4219 03700	Screw, Plate Brake	1
	141 2 4459 08201 141 2 4539 01400	Cushion, Motor Washer	3
	141 2 4539 01900	Washer	1
	141 2 4539 02600	Washer	1
	141 2 4539 06400	Washer	2
	141 2 4539 06900	Washer	1
	141 2 4539 08200 141 2 4539 08200	Washer Washer	2 2
	141 2 4539 08200	Washer	1
	141 2 4569 03000	Washer, Release	1
	141 2 4569 04000	Ring	2
	141 2 4579 00100	Washer	3
	141 2 5219 04200	Flywheel Capstan	1
	141 2 5369 02100 141 2 5369 02200	Plate, Head Base, Head	1
	141 2 5369 02200	Plate, Azimuth	1
	141 2 5519 11500	Idler, Take up	1
	141 2 5739 02700	Pad, Flywheel	1
	141 2 7149 00800	Plate, Brake	1
	141 2 7319 16300	Lever, Pause	1
	141 2 7319 16600 141 2 7319 16700	Contact, Eject Adjustor, Base Slide	1
	141 2 7419 22300	Lever, Take Up	Ιί
	141 2 7419 22800	Lever, Push	1
	141 2 7419 23000	Actuator, Contact	1
	141 2 7419 23100	Lever, Shut Off	1
	141 2 7419 24400	Lever	1
	141 2 7419 25600 141 2 7419 25700	Stopper, Base Slide Lever, Pause Roller	1
	141 2 7419 25700	Lever, Push Sensor	1
	141 2 7439 04700	Arm, Take Up	1
	141 2 7519 14300	Spindle Actuator	1
	141 2 7529 37300	Spacer, E Head	2
	141 2 8219 16200	Guide, Cassette	1
	141 2 8219 16300	Guide, Cassette Roller	1
	141 2 8259 05100 141 2 8519 01800	Spring, Rewind Roller	
	141 2 8519 01800	Spring, Rewind Roller	1
	141 2 8519 02700	Spring, Cassette Hold	1
	141 2 8519 05700	Spring, Slide Arm Power Switch	1
	141 2 8519 06500	Spring Slide Base	1
	141 2 8519 14300	Spring, Lever Cassette Lid	1
	141 2 8519 22300	Spring, Cassette Up	1 1

Key No.	Part No.	Description	Q'ty			
MEC	MECHANISM					
	141 2 8519 24200 141 2 8519 26600 141 2 8519 27200 141 2 8519 44500 141 2 8519 44500 141 2 8519 44500 141 2 8519 44500 141 2 8519 45300 141 2 8519 50900 141 2 8519 50900 141 2 8519 50900 141 2 8519 51100 141 2 8519 51100 141 2 8519 51100 141 2 8519 51100 141 2 8519 51100 141 2 8519 51100 141 2 8519 51100 141 2 3519 20500 141 2 3519 20500 141 2 3119 00700 141 2 3169 00400 141 2 3169 00700 141 2 3169 07200 141 2 3169 07200 141 2 3169 07200 141 2 3169 07200 141 2 3169 07300 141 2 3169 07300 141 2 3719 02600 141 2 3679 16600 141 2 3679 16600 141 2 3799 02600 141 2 3799 02600 141 2 3799 02600 141 2 3799 02600 141 2 3799 02600 141 2 3799 02600 141 2 3799 02600 141 2 5649 03000 141 2 5649 03000 141 2 5649 04100 141 2 5649 04100 141 2 8219 15600 141 2 8219 15600 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100 141 2 8259 00100	Spring, Lever Lock. Spring Brake Spring, Azimuth Spring, Lever Roller Spring, Tension Arm Spring, Stopper Base Spring, Cassette Up Spring, Lock Lid Cassette Spring, Actuator Spring, Fix Head Spring, Fix Head Spring, Adjustor Base Spring Spring Bracket, Counter Counter Button Assy Select Button Assy Pause Sub Chassis Assy Cover Indicator Beam Bracket Back Bracket Front Bracket Side Bracket Side Bracket Side Bracket Switch Plate Jack Bracket Jack Bracket Trans Holder Indicator Bracket Lamp Pulley Motor Plate Cord Fix Tube Lug Lug Bracket Switch Pause Pulley Counter Belt Belt, Counter Belt Belt Belt, Counter Belt Belt Belt Stopper Ball Guide Ball Ball Ball Ball Ball Ball Ball Ball	1111111112211111112111111111113111414111111321132			









Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	
ELEC	ELECTRICAL PARTS				CONTROL PCB ASSY		
VR05 C605 S301 S303 S306 S110 S706 S303 S402 S301, 707 S305	4 2229 71140 4 2239 70180 4 2269 76760 4 2269 76770 4 2269 76780 4 2269 76880 4 2319 70511 4 2319 70511 4 2319 71140 4 2319 71120 4 2319 71130 4 2319 71230 4 2319 71380 4 2319 71930 4 2319 71630 4 2359 71640 4 2359 71650 4 2359 71660 4 2359 71660 4 2359 71660 4 2359 71660 4 2359 71670 4 2359 71680 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71690 4 2359 71850 4 2379 70110 4 2379 70280 4 2379 70160 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 4 2429 70760 6 22251 KH000 RD1 0 3251 KH000 RD1 0 3251 KH000 RD2 2 2251 KV000 RD8 2 3251 KV000 RD8 2 3251 KV000 RD8 2 3251 KV000 RD8 2 3251 KV000	Control Volume Capacitor PCB Mike PCB SW A PCB SW B PCB SW C Switch, Micro Switch, Micro Switch, Slide Switch, Slide Switch Lever Switch Lever Jack Headphone Jack Headphone Jack Headphone Connector Assy 13P Connector Assy 4P Connector Assy 4P Connector Assy 18P Connector Assy 10P Connector Assy 18P Connector Assy 18P Connector Assy 5P Connector Assy 18P Connector As	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C406 C411 C407 C410 C414 C415 C416 C416 C417 C409 R405 R414 R425 R439 R418 R428 R410 R421 R421 R421 R421 R421 R421 R421 R421	CD1 0 8250 0000V CD4 7 6160 0000V CD4 7 7250 0000V CD4 7 7250 0000V CD4 7 7250 0000V CM1 0 3500 K00SV CM1 0 3501 JV000 RD1 0 1251 JV000 RD1 0 1251 JV000 RD1 0 3251 JV000 RD1 0 3251 JV000 RD1 2 2251 JV000 RD1 2 2251 JV000 RD1 2 2251 JV000 RD1 2 2251 JV000 RD1 2 4251 JV000 RD1 5 2251 JV000 RD1 5 4251 JV000 RD1 5 4251 JV000 RD1 5 4251 JV000 RD2 2 0251 JV000 RD2 2 0251 JV000 RD2 2 0251 JV000 RD2 2 3251 JV000 RD2 2 3251 JV000 RD2 2 3251 JV000 RD2 7 1251 JV000 RD2 7 3251 JV000 RD3 3 2251 JV000 RD3 3 2251 JV000 RD4 7 3251 JV000 RD5 6 3251 JV000 RD5 6 3251 JV000 RD5 6 3251 JV000 RD6 8 2251 JV000	Electrolytic 1000mF 25V Electrolytic 470mF 25V Electrolytic 470mF 25V Electrolytic 470mF 31V Mylar 0.01mF ±10% 50V Carbon 100 ohm ±5% 1/4W Carbon 110 ohm ±5% 1/4W Carbon 110 ohm ±5% 1/4W Carbon 10K ohm ±5% 1/4W Carbon 10K ohm ±5% 1/4W Carbon 10K ohm ±5% 1/4W Carbon 12O ohm ±5% 1/4W Carbon 12O ohm ±5% 1/4W Carbon 12N ohm ±5% 1/4W Carbon 12N ohm ±5% 1/4W Carbon 12N ohm ±5% 1/4W Carbon 15N ohm ±5% 1/4W Carbon 15N ohm ±5% 1/4W Carbon 12N ohm ±5% 1/4W Carbon 22 ohm ±5% 1/4W Carbon 22 ohm ±5% 1/4W Carbon 22N ohm ±5% 1/4W Carbon 27N ohm ±5% 1/4W Carbon 3.3K ohm ±5% 1/4W Carbon 56K ohm ±5% 1/4W Carbon 6.8K ohm ±5% 1/4W Carbon 6.8K ohm ±5% 1/4W	
R315 R317 R316	RH2 7 1103 KH000 RH3 9 1103 KH000 RH4 7 1103 KH000	Metal oxide 270 ohm ±10% 10W Metal oxide 390 ohm ±10% 10W Metal oxide 470 ohm ±10% 10W	1 1	R428 R435 R413	RD6 8 2251 JV000 RD6 8 2251 JV000 RD8 2 1251 JV000 RH1 0 1102 KH000	Carbon 6.8K ohm ±5% 1/4W Carbon 6.8K ohm ±5% 1/4W Carbon 820 ohm ±5% 1/4W Metal oxide 100K ohm ±10% 1W	
CON	TROL PCB ASSY			D405 D411 Q408	202 5 9410 01010 202 5 9410 01010 203 5 0200 18740	Diode 10D-1 Diode 10D-1 Transistor 2SB187	
AL01 D403 D406 D404 D407 D408 D410	4 1329 71820 4 1519 70360 4 2029 70160 4 2029 70160	Control, PCB Assy Alarm Phone Diode 1S953 Diode 1S953 Diode 1S953 Diode 1S953 Diode 1S953 Diode 1S953	1 1 1 1 1 1 1 1 1 1	Q409 Q401 Q402 Q405 Q406 Q404 Q403 Q407	203 5 0800 18740 203 5 5100 53660 203 5 5100 53660 203 5 5100 53670 203 5 5100 53670 203 5 6430 51140 203 5 6800 65960 203 5 6800 65960 4 1519 70360	Transistor 2SD187 Transistor 2SC 536 Transistor 2SB 511 Transistor 2SA659 Transistor 2SA659 Alam Phone	
D401 D402 P401	4 2029 70160 4 2229 72650	Diode 1S953 Diode 1S953 Potentiometer	1 1	POW	ER PCB ASSY		
C420 C403 C419 C413 C421 C401 C404 C408 C402 C405	4 2319 71370 4 2369 71070 CC1 0 2500 KE00C CD1 0 5250 0000V CD1 0 5250 0000V CD1 0 5250 0000V CD1 0 5250 0000V CD1 0 6250 0000V CD1 0 663A 0000V CD1 0 7250 0000V CD1 0 7250 0000V CD1 0 763A 0000V CD1 0 763A 0000V	Switch Connector 13P Ceramic 0.001mF ±10% 50V Electrolytic 1mF 25V Electrolytic 1mF 25V Electrolytic 1mF 25V Electrolytic 1mF 25V Electrolytic 10mF 25V Electrolytic 10mF 6.3V Electrolytic 100mF 25V Electrolytic 100mF 6.3V Electrolytic 100mF 25V	1 1 1 1 1 1 1 1 1 1 1 1 1	D602 D601 D604 D603 D601 F602 F601 H601 H602 C601 C604	4 1919 70640 4 2029 70160 4 2029 70160 4 2029 70290 4 2029 70360 4 2039 70093 4 2349 70140 4 2349 70140 4 2359 70910 CD1 0 7250 0000V CD1 0 8250 0000V	Power PCB Assy Diode 1S953 Diode 1S953 Diode WZ-120 Diode WZ-210 Transistor 2SD227 Fuse Fuse Holder Fuse Holder Fuse Electrolytic 100 mF 25V Electrolytic 100 mF 25V	

Q'ty

Key No.	Part No.	Description	.Q'ty		
POWER PCB ASSY					
C602 C603 R601 R602 D605 D607 D608 D606 Q602 Q603	CD1 0 8350 0000V CD4 7 7160 0000V RD5 6 2251 KH000 RH2 7 1102 KH000 202 5 2300 01710 202 5 2300 01810 202 5 2300 01810 202 5 2300 01810 203 5 6440 50750 203 5 8310 31360	Electrolytic 1000mF 35V Electrolytic 470mF 16V Carbon 5.6K ohm ±10% 1/4W Metal oxide 270 ohm ±10% 1W Diode DS 17 Diode DS 17 Diode DS 18 Diode DS 18 Transistor 2SB507 Transistor 2SD313	1 1 1 1 1 1 1 1 1		
AUD	IO AMP PCB ASSY				
Q301 P102 P205 P301 P103 P201 P202 P203 P104 P101 P105 P204 S100 S200 T101 T201 L104 L201 L101 C326 C171 C203 C158 C103 C256 C210 C166 C266 C210 C166 C266 C210 C165 C110 C265 C277	4 1329 71620 4 1329 71890 4 1329 71890 4 2039 70100 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2229 72360 4 2239 71600 4 2319 71960 4 2319 71960 4 2319 71960 4 2319 71960 4 2359 71600 4 2359 71600 4 2549 70150 4 2549 70150 4 2729 70090 4 2729 70090 CA1 0 5100 M000V CA4 7 4100 M000V CA4 7 4100 M000V CC1 0 1500 KD00C CC1 0 1500 KD00C CC1 0 1500 KD00C CC1 0 1500 KD00C CC1 1 2500 KD00C CC1 2 2500 KE00C CC2 2 1500 KD00C CC3 3 1500 KD00C CC6 8 0500 KD00C	Dolby Unit Audio Amp PCB Assy Transistor 2SC945 Potentiometer Switch Slide Connector 6P Connector 6P Matching Trans. Matching Trans. Coil Coil Coil Coil Coil Coil Coil Coil	211111111111111111111111111111111111111		
C177 C116 C112 C151 C152 C154 C113 C107 C108 C273 C274 C269 C306 C272 C275 C252 C254	CD1 0 5100 0000V CD1 0 6160 0000V	Electrolytic 1mF Electrolytic 10mF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

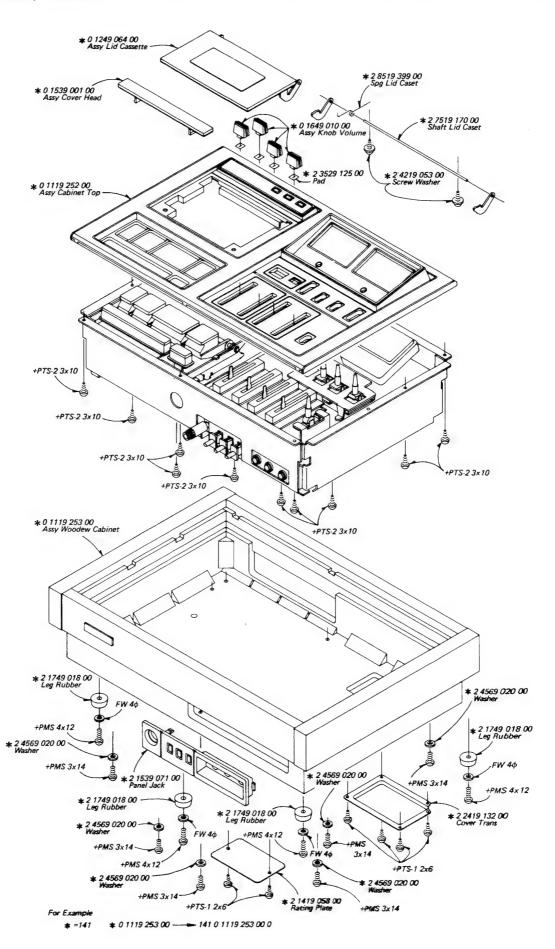
No. Part No.	Description	Q'ty
AUDIO AMP PCB ASSY		
C212	Electrolytic 10mF	

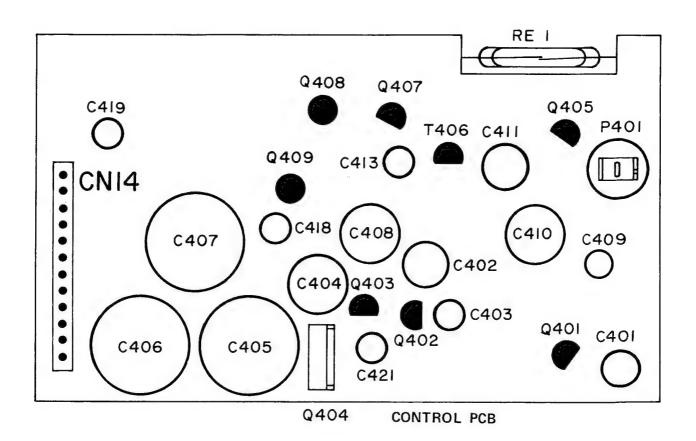
Key No.	Part No.	Descrip	tion	Q'ty	
AUDIO AMP PCB ASSY					
R105	RD1 0 4251 KV000	Carbon 100K ohm	±10% 1/4W	1	
R158	RD1 0 4251 KV000	Carbon 100K ohm	±10% 1/4W	1	
R528 R205	RD1 0 4251 KV000 RD1 0 4251 KV000	Carbon 100K ohm Carbon 100K ohm	±10% 1/4W ±10% 1/4W	1	
R108	RD1 2 1251 KV000	Carbon 120 ohm	±10% 1/4W	li	
R208	RD1 2 1251 KV000	Carbon 120 ohm	±10% 1/4W	i	
R277	RD1 2 3251 KV000	Carbon 12K ohm	±10% 1/4W	1	
R169	RD1 2 3251 KV000	Carbon 12K ohm	±10% 1/4W	1 1	
R269	RD1 2 3251 KV000	Carbon 12K ohm	±10% 1/4W ±10% 1/4W	1	
R177 R276	RD1 2 3251 KV000 RD1 2 4251 KV000	Carbon 12K ohm Carbon 120K ohm	±10% 1/4W	1 1	
R168	RD1 2 4251 KV000	Carbon 120K ohm	±10% 1/4W	li	
R268	RD1 2 4251 KV000	Carbon 120K ohm	±10% 1/4W	1	
R176	RD1 2 4251 KV000	Carbon 120K ohm	±10% 1/4W	1	
R125	RD1 5 2251 KV000	Carbon 1.5K ohm	±10% 1/4W	1	
R225	RD1 5 2251 KV000	Carbon 1.5K ohm Carbon 150K ohm	±10% 1/4W ±10% 1/4W	1	
R298 R198	RD1 5 4251 KV000 RD1 5 4251 KV000	Carbon 150K ohm	±10% 1/4W	1	
R295	RD2 2 1251 KV000	Carbon 220 ohm	±10% 1/4W	1	
R195	RD2 2 1251 KV000	Carbon 220 ohm	±10% 1/4W	1	
R116	RD2 2 4251 KV000	Carbon 220K ohm	±10% 1/4W	1	
R301	RD2 2 4251 KV000	Carbon 220K ohm	±10% 1/4W	1	
R216 R279	RD2 2 4251 KV000 RD2 7 1251 KV000	Carbon 220K ohm Carbon 270 ohm	±10% 1/4W ±10% 1/4W	1 1	
R179	RD2 7 1251 KV000	Carbon 270 ohm	±10% 1/4W	1	
R178	RD2 7 2251 KV000	Carbon 2.7K ohm	±10% 1/4W	1	
R270	RD2 7 2251 KV000	Carbon 2.7K ohm	±10% 1/4W	1	
R170	RD2 7 2251 KV000	Carbon 2.7K ohm	±10% 1/4W	1	
R278	RD2 7 2251 KV000	Carbon 2.7K ohm	±10% 1/4W	1	
R251 R271	RD3 3 1251 KV000 RD3 3 1251 KV000	Carbon 330 ohm Carbon 330 ohm	±10% 1/4W ±10% 1/4W	1 1	
R256	RD3 3 1251 KV000	Carbon 330 ohm	±10% 1/4W	ĺ	
R156	RD3 3 1251 KV000	Carbon 330 ohm	±10% 1/4W	1	
R171	RD3 3 1251 KV000	Carbon 330 ohm	±10% 1/4W	1	
R151	RD3 3 1251 KV000	Carbon 330 ohm	±10% 1/4W	1	
R179	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
R184 R182	RD3 3 2251 KV000 RD3 3 2251 KV000	Carbon 3.3K ohm Carbon 3.3K ohm	±10% 1/4W ±10% 1/4W	1	
R219	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
R274	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	i	
R255	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
R257	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
R282	RD3 3 2251 KV000 RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
R297 R284	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W ±10% 1/4W	1 1	
3304	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	i	
R119	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
₹174	RD3 3 2251 KV000	Carbon 3.3K ohm	±10% 1/4W	1	
3155	RD3 3 2251 KV000	Carbon 3.3K ohm	- 1070 17 111	1	
R210	RD3 3 3251 KV000	Carbon 33K ohm Carbon 33K ohm	±10% 1/4W	1	
₹263 ₹110	RD3 3 3251 KV000 RD3 3 3251 KV000	Carbon 33K ohm	±10% 1/4W ±10% 1/4W	1 1	
₹157	RD3 3 3251 KV000	Carbon 33K ohm	±10% 1/4W	1	
₹163	RD3 3 3251 KV000	Carbon 33K ohm	±10% 1/4W	i	
3220	RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W	1	
3212	RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W	1	
308 3120	RD3 9 2251 KV000 RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W ±10% 1/4W	1	
3112	RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W	1	
R165	RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W	i	
R265	RD3 9 2251 KV000	Carbon 3.9K ohm	±10% 1/4W	1	
7114	RD4 7 1251 KV000	Carbon 470 ohm	±10% 1/4W	1	
R214 R175	RD4 7 1251 KV000 RD4 7 2251 KV000	Carbon 470 ohm Carbon 4.7K ohm	±10% 1/4W	1	
R275	RD4 7 2251 KV000	Carbon 4.7K ohm	±10% 1/4W ±10% 1/4W	1	
₹107	RD4 7 3251 KV000	Carbon 47K ohm	±10% 1/4W	1	
₹109	RD4 7 3251 KV000	Carbon 47K ohm	±10% 1/4W	i	
7162	RD4 7 3251 KV000	Carbon 47K ohm	±10% 1/4W	1	
R207 R209	RD4 7 3251 KV000 RD4 7 3251 KV000	Carbon 47K ohm	±10% 1/4W	1	
R209	RD4 7 3251 KV000 RD4 7 3251 KV000	Carbon 47K ohm Carbon 47K ohm	±10% 1/4W ±10% 1/4W	1 1	
R305	RD5 6 0251 KV000	Carbon 56 ohm	±10% 1/4W	1	
R123	RD5 6 1251 KV000	Carbon 560 ohm	±10% 1/4W	1	
R223	RD5 6 1251 KV000	Carbon 560 ohm	±10% 1/4W	1	
R167	RD5 6 2251 KV000	Carbon 5.6K ohm	±10% 1/4W	1	
R627 R309	RD5 6 2251 KV000 RD5 6 3251 KV000	Carbon 5.6K ohm	±10% 1/4W	1	
R302	RD5 6 3251 KV000	Carbon 56K ohm	±10% 1/4W ±10% 1/4W	1 1	
R117	RD5 6 3251 KV000	Carbon 56K ohm	±10% 1/4W	1	
R166	RD5 6 3251 KV000	Carbon 56K ohm	±10% 1/4W	1 1	

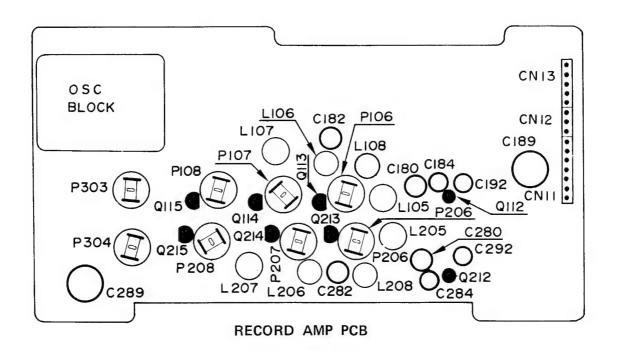
Key No.	Part No.	Description	Q'ty
AUD	IO AMP PCB ASSY		
R217 R266 R306 R307 R113 R253 R280 R180 R180 R153 R206 R159 R273 R173 R271 R264 R164 R164 R164 R111 R254 R222 R281 R181 R122 R281 R181 R122 R281 R181 R1	RD5 6 3251 KV000 RD5 6 3251 KV000 RD6 8 2251 KV000 RD6 8 2251 KV000 RD6 8 2251 KV000 RD6 8 3251 KV000 RD6 8 4251 KV000 RD7 RD8 2 2251 KV000 RD8 2 3251 KV000 RD	Carbon 56K ohm	
VR C	CONTROL PCB ASS		<u> </u>
VR03 VR04 VR01 VR02 R152 R252	4 1329 71910 4 2229 70920 4 2229 70920 4 2229 71180 4 2229 71180 RD5 6 2251 KV000 RD5 6 2251 KV000	Circuit Volume Control Volume Control Volume Control Volume Control Volume Carbon 5.6K ohrn Carbon 5.6K ohrn 10% 1/4W	1 1 1 1 1

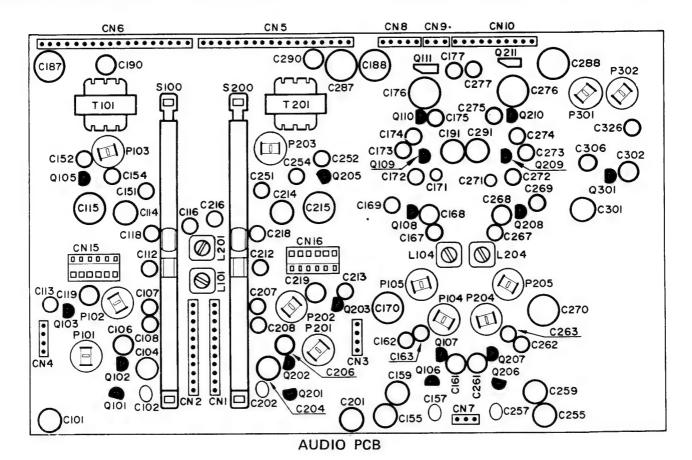
SUB CIRCUIT PCB ASSY 4 1329 71900 Sub Circuit PCB Assy	Q'ty
4 1329 71900 Sub Circuit PCB Assy	
P303	

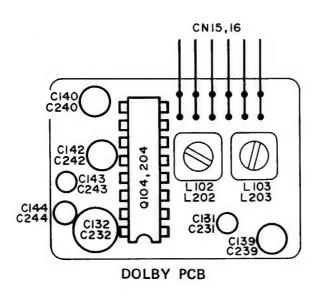
Key No.	Part No.	Description	Q'ty			
SUB	SUB CIRCUIT PCB ASSY					
R187 R296 R196 Q113 Q213 Q114 Q214 Q115 Q215 Q112 Q212	RD8 2 2251 KV000 RD8 2 3251 KV000 RD8 2 3251 KV000 203 5 5100 53640 203 5 5100 69351	Carbon 8.2K ohm ±10% 1/4W Carbon 82K ohm ±10% 1/4W Carbon 82K ohm ±10% 1/4W Transistor 2SC 536D Transistor 2SC 693E Transistor 2SC 693E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
CABI	NET					
	141 0 1119 25200 141 0 1249 06400 141 0 1539 00100 141 2 2419 13000 141 2 7519 17000 141 2 7519 17000 141 2 8519 39900 141 0 1119 25300 141 2 1419 05800 141 2 1539 07100 141 2 1749 01800 141 2 2419 13200 141 6 4559 00100 141 6 4729 14200 141 6 4749 01400 141 0 1639 04700 141 0 1639 04800 141 0 1649 01000 141 0 1649 01000 141 1 0 1649 07200	Cabinet Assy Top Lid Assy Cassette Cover Assy Head Cloth Switch Screw Washer Shaft, Lid Cassette Spring, Lid Cassette Wooden Cabinet Assy Rating Plate Panel, Jack Leg, Rubber Cover, Trans Serial No Sheet Label, Dolby Calib Label, Dolby Knob ASSY, Calib R Knob ASSY, Calib L Knob ASSY, Volume Knob Slide Switch	1 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1 3			
ACCE	SSORY					
	4 2369 70360 4 2369 70370 4 2369 70470 4 2419 73810 141 6 4119 43800 141 6 4729 01900	Plug, Adaptor Plug, Adaptor Cord, DIN to DIN Cassette Instruction Manual Label Caution	1 1 1 1			
PACKAGE						
	141 2 3529 10600 141 6 1419 22900 141 6 1429 09100 141 6 1449 32500 141 6 2519 07014 141 6 2519 13027 141 6 2519 20025 141 6 2519 50070 141 6 4559 00100 141 6 4729 14500	Stopper Cassette Individual Carton Box, Accessory Case, Styrofoam Poly Cover 70 x 140, Plug Poly Cover 130 x 270, AC Cord Poly Cover 200 x 250, Accessory Poly Cover 500 x 700, Unit Serial No Sheet Label Accessory	1 1 2 1 1 1 1 2			

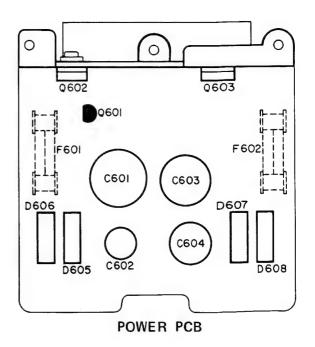


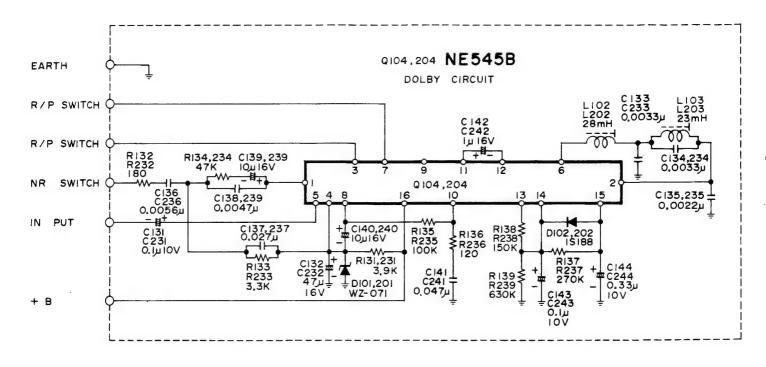




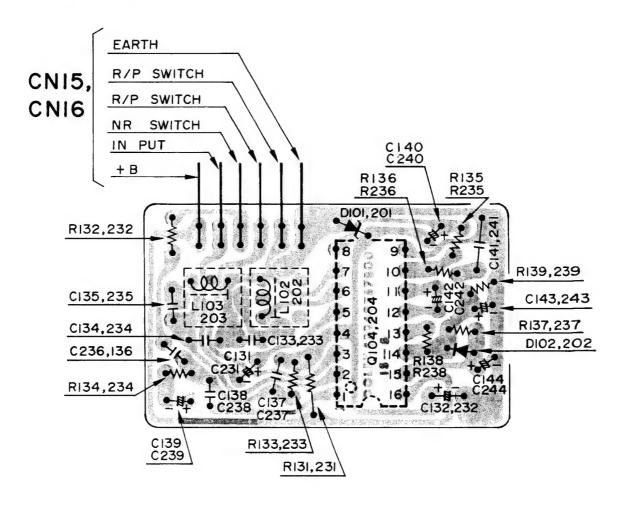


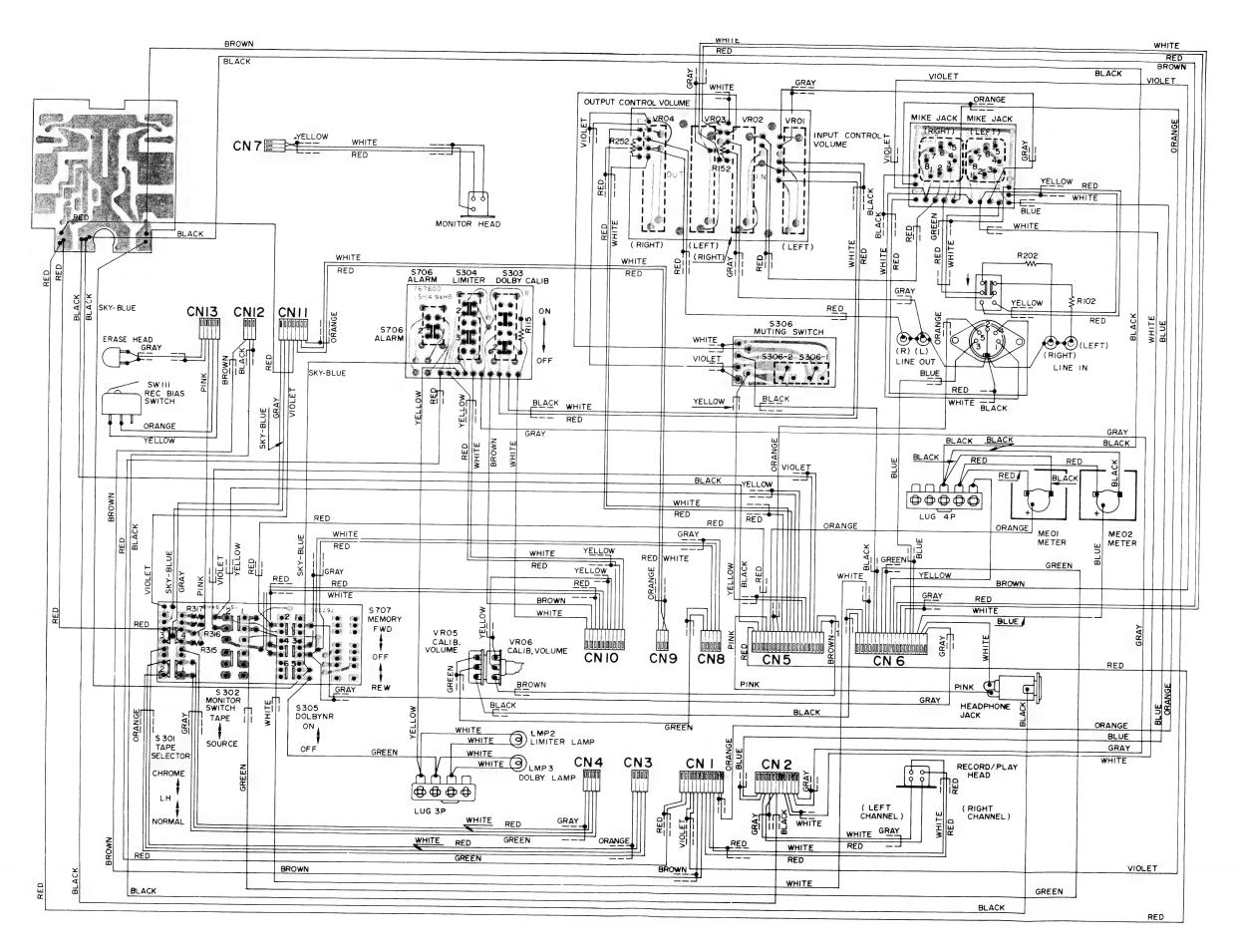


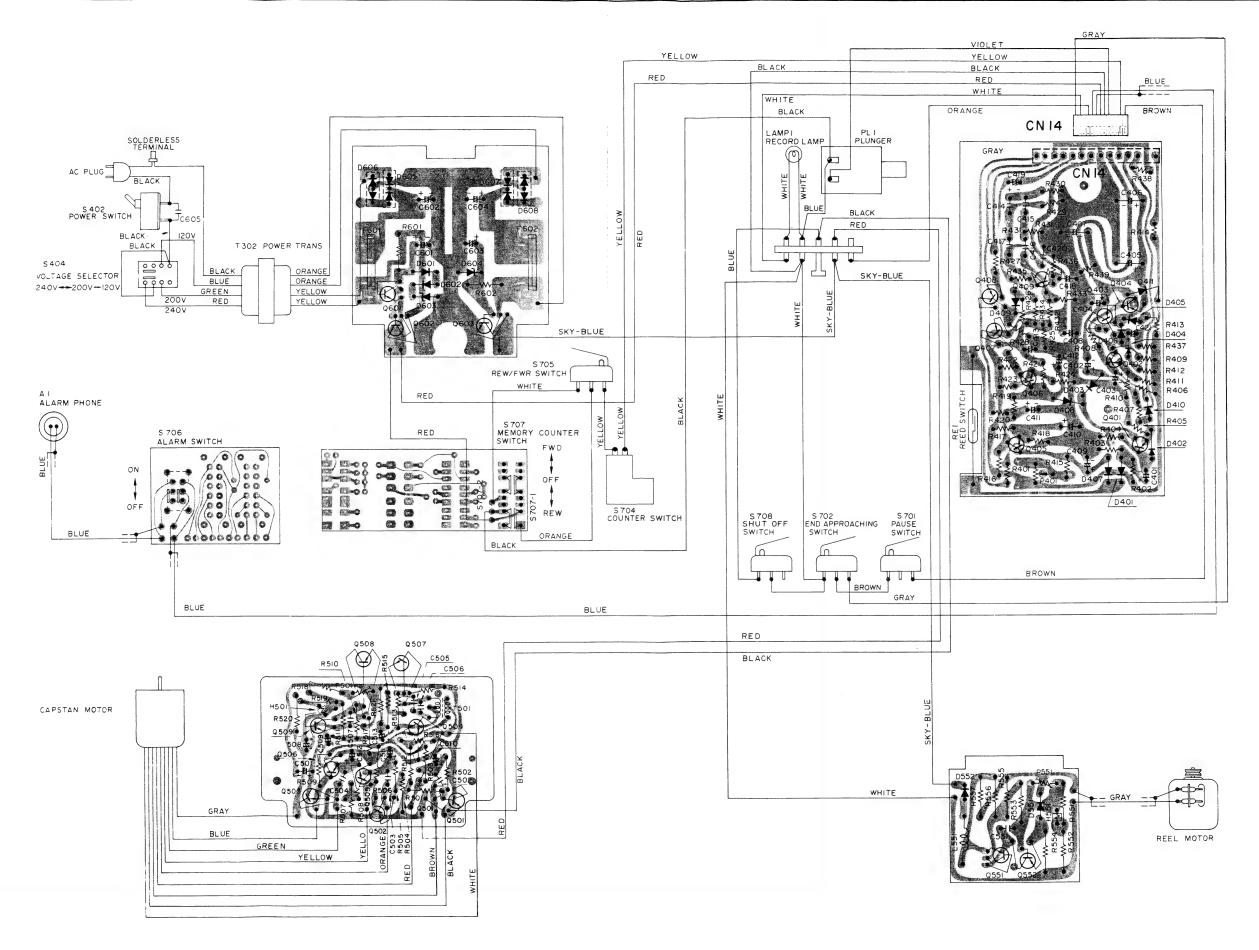


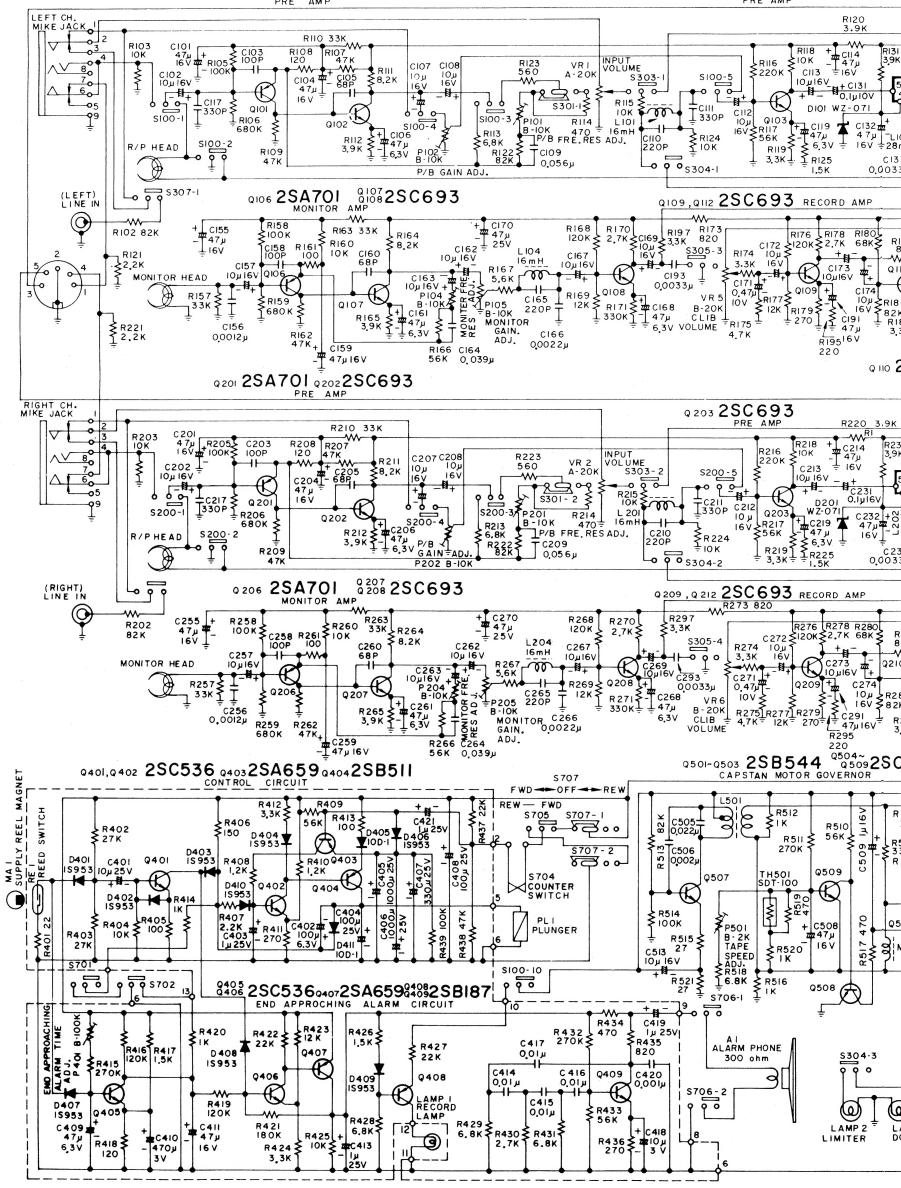


WIRING DIAGRAM (DOLBY CIRCUIT)_

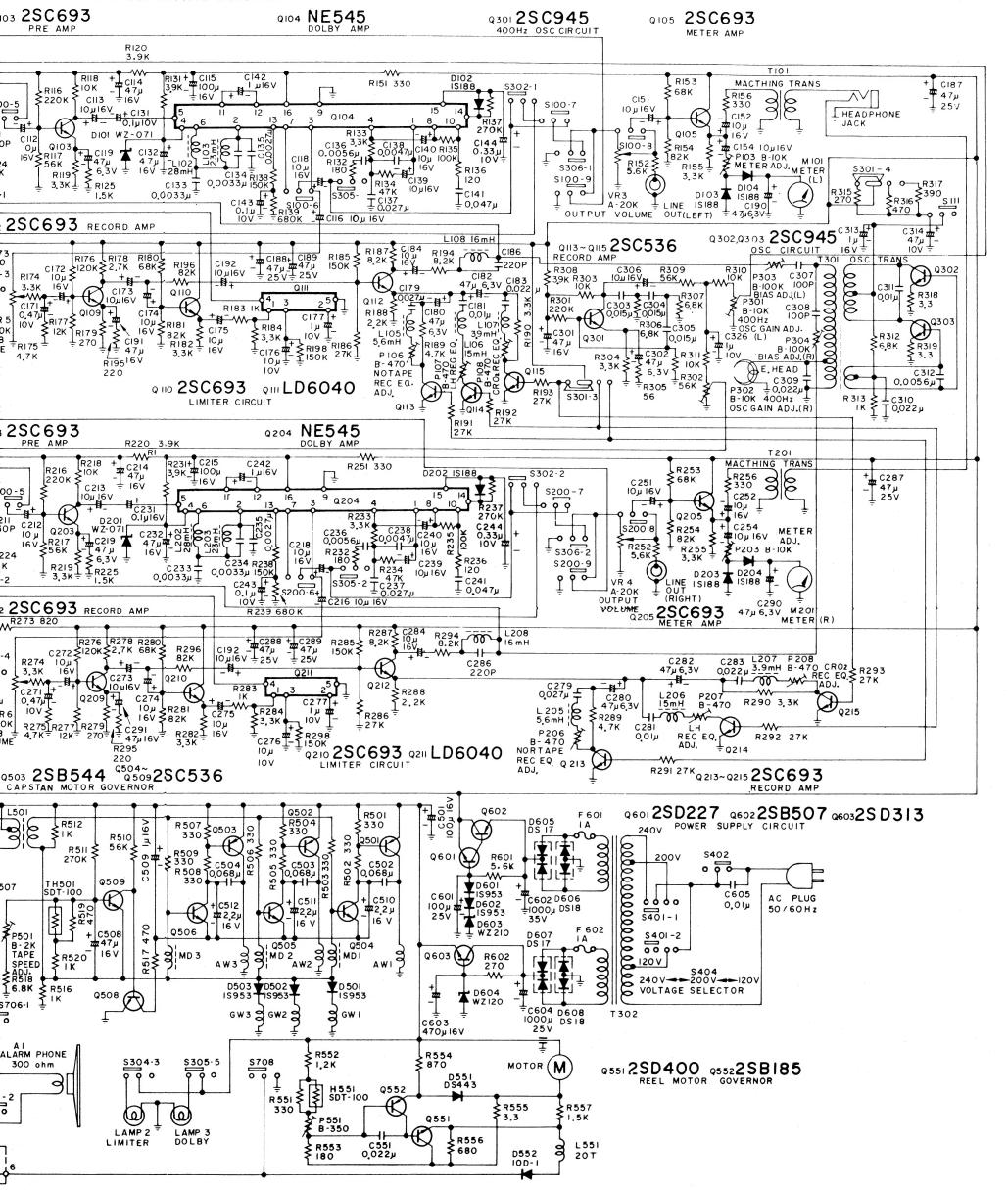




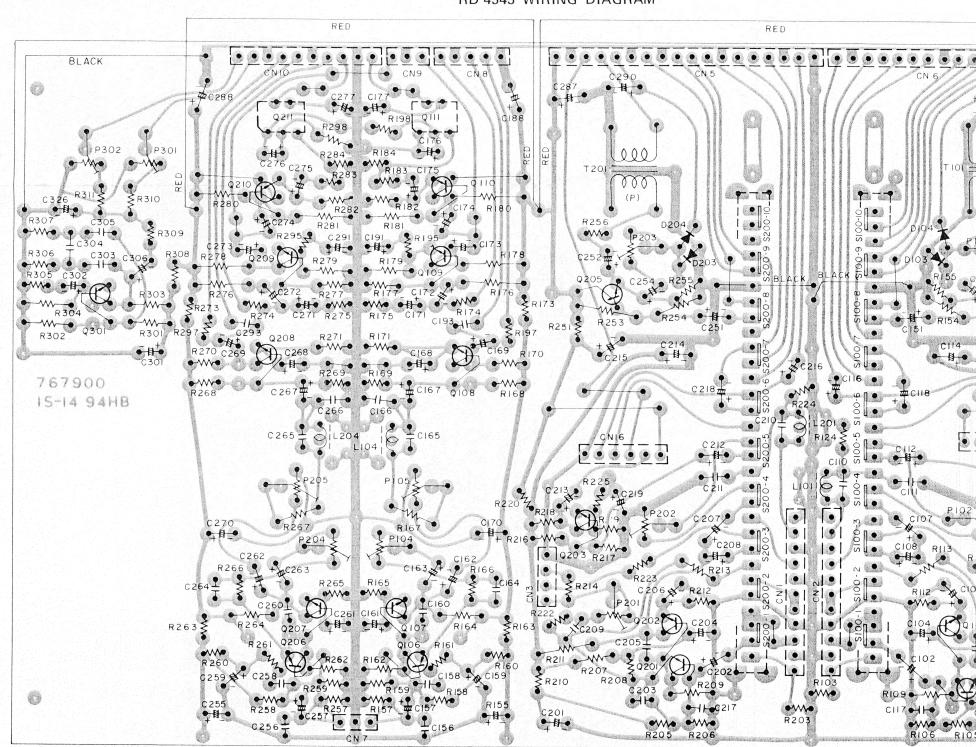




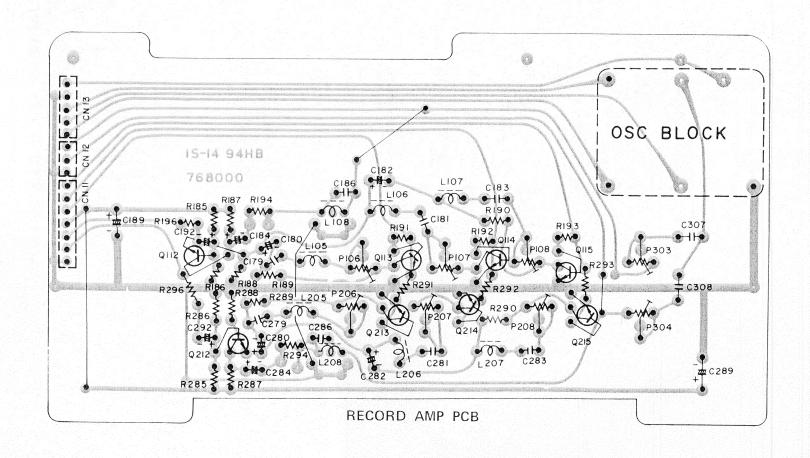
RD 4545 SCHEMATIC DIAGRAM



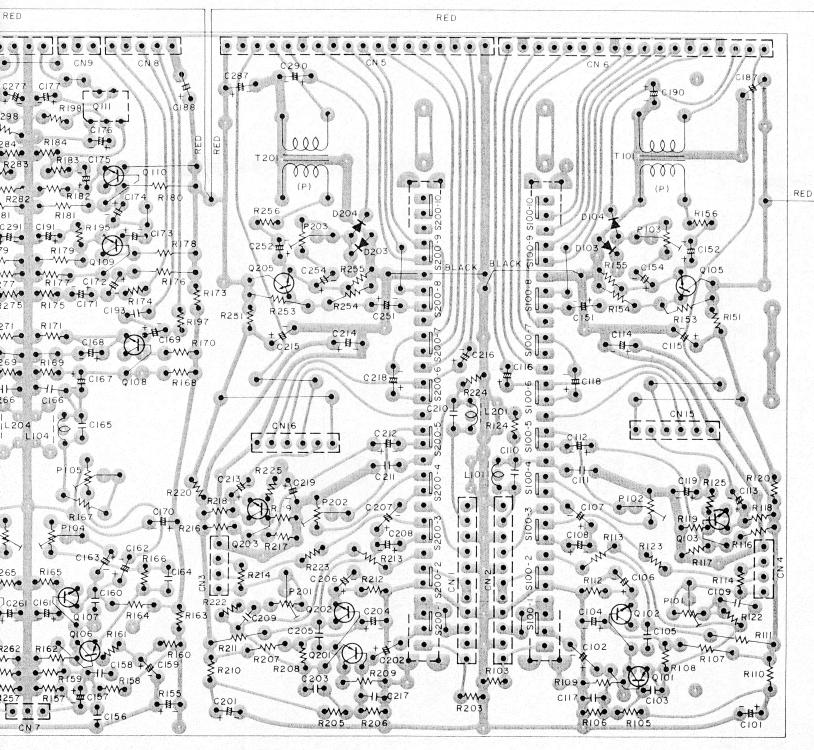
RD 4545 WIRING DIAGRAM



AUDIO AMP PCB



RD 4545 WIRING DIAGRAM



AUDIO AMP PCB

